



TechData Sheet

Naval Facilities Engineering Service Center
Port Hueneme, California 93043-4370

TDS-2043-SHR

June 2000

Sargent & Greenleaf Model 833C High Security Padlock

The Sargent and Greenleaf (S&G) Model 833C is a commercially developed, key-operated, high security padlock manufactured by Sargent and Greenleaf, Inc., Nicholasville, Kentucky. It was procured to meet the requirements of Military Specification, "Padlock, Key Operated, High Security, Shrouded Shackle," MIL-P-43607. This padlock replaces the S&G 831B and Hi-Shear Model LK 1200 which no longer meet the requirements of MIL-P-43607.

The national stock number (NSN) for the high security padlock for use by the military is listed below as well as the NSN for the replacement cylinder:

<i>NSN</i>	<i>DESCRIPTION</i>
5340-01-217-5068	S&G 833C, Padlock, Key Operated, High Security, Shrouded Shackle.
5340-01-323-1087	MEDECO Cylinder High Security, supplied with three keys (2 operator and 1 control).

All non DOD Federal agencies and government contractors shall use the NSNs and replacement cylinders for high security padlocks as listed below:

<i>NSN</i>	<i>DESCRIPTION</i>
5340-01-449-4346	S&G 833C, Padlock, Key Operated, High Security, Shrouded Shackle.
5340-01-449-4349	MEDECO Cylinder High Security, supplied with three keys (2 operator and 1 control).

The Model 833C High Security Padlock has the familiar inverted U-shaped shackle (see Figure 1). The Model 833C is supplied with three keys, one control key and two operator keys. As shown in Figure 1, the control key has a square bow and no shoulder on the blade. The control key is used for disassembly and maintenance of the padlock only; it is **NOT** for normal operation.

Disassembly, cleaning, inspection, lubrication, and reassembly should be performed at 6-month intervals. Under extreme conditions, such as excessive dust, dirt, or salt spray, shorter maintenance intervals should be established.

PADLOCK OPERATION

Normal operation of the 833C padlock:

1. Hold the padlock firmly in one hand and insert the operator key fully into the keyway of the padlock.
2. To unlock: Turn the key clockwise 1/4 turn. Lift the shackle. (**Note:** The key cannot be removed when the padlock is unlocked.)
3. To lock: Insert shackle into the shackle hole, turn key 1/4 turn counterclockwise, and remove key.



Figure 1. Sargent and Greenleaf Model 833C padlock with keys.

DISASSEMBLY

The S&G Model 833C can be disassembled as follows:

1. Hold the padlock firmly in one hand and insert the **control** key fully into the keyway; rotate key 1/4 turn counterclockwise.
2. Lift shackle and rotate 1/2 of a turn.
3. Slide the upper case and lower case apart. Set the upper case aside.
4. Rotate the key back to the locked position and remove.
5. Cover the top of the lower case and then turn the case upside down and remove the cylinder, key cap, and cam.

CLEANING AND LUBRICATION

Clean all surfaces with solvents and prior to reassembly, the upper case assembly must be lubricated (see Figure 2.) Use the lubricants recommended below:

- Cleaning compound, solvent, aerosol. Used for cleaning. Avoid prolonged contact, inhalation, and heat. Use as directed. NSN: 6850-01-061-5493
- KeyLube™2. Multi-purpose lubricant. Use sparingly as directed.

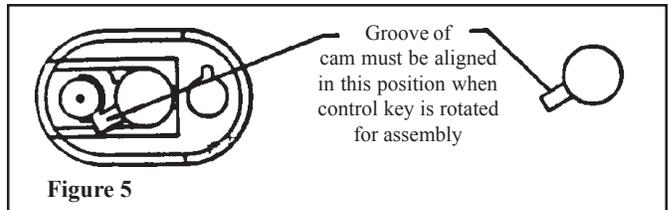
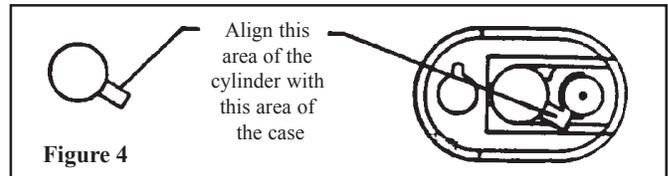
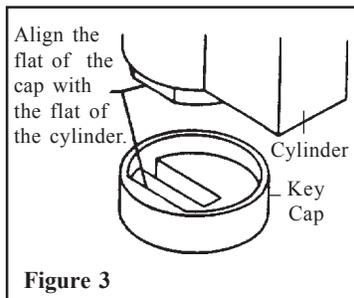
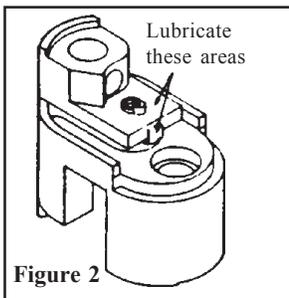
WARNING

Use cleaning solvents in a well-ventilated area.

ASSEMBLY

1. Place the key cap over the end of the cylinder. Align the flat of the cap to the flat of the cylinder (see Figure 3).
2. With the lower case upside down, insert the cap and apply downward pressure on the cylinder (see Figure 4).
3. Turn the lower case right side up and apply downward pressure on the cylinder.
4. Insert the control key and rotate it 1/4 turn, reassembling the padlock. The key should remain in the lock at this time.
5. Place the cam on top of the cylinder. Make sure the cam is aligned as shown in Figure 5 after installation.
6. Slide the upper case assembly back onto the lower case.
7. Rotate the shackle back and insert it into the shackle hole, turn the key 1/4 turn clockwise, and remove the key.

(Note: The lock should be operated several times to insure that it is working properly. Use the OPERATOR key for this check.)



MAINTENANCE

The 6-month maintenance schedule of the S&G 833C is:

1. Inspect all padlock components for corrosion. Remove the corrosion with a wire brush.
2. Clean the cavity of the padlock body and all padlock components with solvent.
3. If dry film lubricant is used, spray the lock components. Let the components dry before reassembling the padlock. A needle-nose spray head may be used to lubricate the keyway or the key may be sprayed and inserted into the keyway before drying.

(Note: Petroleum-based products should not be used for lock maintenance.)

If problems occur during normal operation or maintenance of the padlock, disassemble the padlock and reassemble according to instructions.

MALFUNCTIONING LOCKS

Navy Locks

Any Navy, Marine Corps, or Coast Guard personnel should contact Defense Locking Systems for further instructions or disposition of locks that fail to operate properly after disassembly and reassembly. A letter identifying the suspected problem and point of contact must be enclosed with the lock. Padlocks will be repaired (if possible) and returned to sender. Call or mail locks to:

NAVSURFWARCENDIV, Code 7095
Building 8
300 Highway 361
Crane, IN 47522-5001
(812) 854-1354 or DSN: 482-1354

Non-Navy Locks

All others should contact the **DoD Lock Program Technical Support Hotline** at (800) 290-7607, (805) 982-1212, DSN: 551-1212, or E-mail: dodlock@nfesc.navy.mil.